

Claims

1. A method of providing Internet telephony to a subscriber premises via a subscriber Internet connection to said subscriber premises, using an analog telephone connection, comprising

providing a voice gateway converting Internet telephony and analog telephony standards to facilitate the use of Internet and analog telephony by said subscriber,

providing a call forwarding manager connected to said analog telephone line,

providing an Internet protocol telephone at said subscriber premises,

receiving an analog telephone call from said analog telephone line at said call forwarding manager, and responding to said reception by generating a request for service from said voice gateway,

generating an Internet telephone connection from said voice gateway to said Internet protocol telephone at said subscriber premises in response to said request for service from said call forwarding manager, and

connecting said analog telephone call via said voice gateway to said Internet protocol telephone via said subscriber Internet connection.

2. The method of claim 1 wherein said call forwarding manager is located at said subscriber premises and said analog telephone line connects to said subscriber premises.

3. The method of claim 1 wherein said voice gateway is remote from said subscriber premises.

4. The method of claim 3 wherein said voice gateway is utilized by multiple subscribers simultaneously to provide conversion between Internet telephony and analog telephony standards.

5. The method of claim 1 further comprising providing a call manager, said call manager receiving said request for service from said call forwarding manager, said call manager establishing an Internet telephone connection from said voice gateway to said Internet protocol telephone for use by said voice gateway.

6. The method of claim 1 wherein said call manager performs a data driven call management application.

7. The method of claim 1 wherein said call manager provides enhanced services to said subscriber including one or more of establishing pick groups, hunt groups, call forwarding and voice messaging for Internet protocol telephone of said subscriber.

8. The method of claim 1 wherein said call forwarding manager receives dialed number information service data regarding said analog telephone call and forwards said dialed number information service data as part of said request for service.

9. The method of claim 8 wherein said dialed number information service data is used in identifying said Internet protocol telephone as a recipient of said analog telephone call.

10. The method of claim 9 wherein said call forwarding manager receives automatic number identification data regarding said analog telephone call and forwards said automatic number identification data as part of said request for service.

11. The method of claim 10 wherein said automatic number identification data is used in identifying said Internet protocol telephone as a recipient of said analog telephone call.

12. The method of claim 1 wherein said analog telephone call is connected to said voice gateway by delivery of one or more of TAPI, JTAPI, SCTP, or proprietary interface commands to a telecommunications exchange switch.

13. A system for providing Internet telephony to a subscriber premises via a subscriber Internet connection to said subscriber premises, using an analog telephone connection, comprising

a voice gateway converting Internet telephony and analog telephony standards to facilitate the use of Internet and analog telephony by said subscriber,

a call forwarding manager connected to said analog telephone line,

said call forwarding manager receiving an analog telephone call from an analog telephone line, and responding to said reception by generating a request for service from said voice gateway,

said voice gateway generating an Internet telephone connection to an Internet protocol telephone at said subscriber premises in response to said request for service from said call forwarding manager, and connecting said analog telephone call via said voice gateway to said Internet protocol telephone via said subscriber Internet connection.

14. The method of claim 13 wherein said call forwarding manager is located at said subscriber premises and said analog telephone line connects to said subscriber premises.

15. The method of claim 13 wherein said voice gateway is remote from said subscriber premises.

16. The method of claim 15 wherein said voice gateway is coupled to Internet protocol telephones located at the premises of multiple subscribers, to provide conversion between Internet telephony and analog telephony standards.

17. The method of claim 13 further comprising a call manager, said call manager receiving said request for service from said call forwarding manager, said call manager establishing an Internet telephone connection from

said voice gateway to said Internet protocol telephone for use by said voice gateway.

18. The method of claim 13 wherein said call manager performs a data driven call management application.

19. The method of claim 13 wherein said call manager provides enhanced services to said subscriber including one or more of establishing pick groups, hunt groups, call forwarding, voice driven local directory service and voice messaging for Internet protocol telephone of said subscriber.

20. The method of claim 13 wherein said call forwarding manager receives dialed number information service data regarding said analog telephone call and forwards said dialed number information service data as part of said request for service.

21. The method of claim 20 wherein said dialed number information service data is used in identifying said Internet protocol telephone as a recipient of said analog telephone call.

22. The method of claim 21 wherein said call forwarding manager receives automatic number identification data regarding said analog telephone call and forwards said automatic number identification data as part of said request for service.

23. The method of claim 22 wherein said automatic number identification data is used in identifying said Internet protocol telephone as a recipient of said analog telephone call.

24. The method of claim 13 wherein said analog telephone call is connected to said voice gateway by delivery of one or more of TAPI, JTAPI, SCTP, or proprietary interface commands to a telecommunications exchange switch.

25. A call forwarding manager for use in interfacing Internet telephony to a subscriber premises using an analog telephone line, comprising
an analog telephone connection for connection to said analog telephone line to capture one or more of dialed number information service data or automatic number identification data, and

a digital communications connection for delivering a request for service including one or more of said dialed number information service data or automatic number identification data.

26. The call forwarding manager of claim 25 wherein said digital communications connection comprises a serial connection.

27. The call forwarding manager of claim 26 wherein said serial connection comprises one or more of of USB, Firewire and Ethernet.

28. The call forwarding manager of claim 25 wherein said digital communications connection comprises a parallel connection.

29. The call forwarding manager of claim 28 wherein said parallel connection comprises one or more of PCI, ISA and IEEE-488.

30. The call forwarding manager of claim 25 wherein said request for service is delivered as an IP packet.

31. The call forwarding manager of claim 25 further comprising firewall and VPN systems for managing communications via said digital communications connection.

32. The call forwarding manager of claim 25 further comprising an ADSL, cable, or wireless modem.

33. The call forwarding manager of claim 25 further comprising quality of service and RSVP service systems for managing communications via said digital communications connection.